

CLAIMS

- 1 1. An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus; and
5 a capacity manager residing in the memory and executed by the at least one
6 processor, the capacity manager managing at least one temporary resource on demand for
7 a specified resource-time for at least one of the plurality of logical partitions, the capacity
8 manager controlling access to a minimum resource specification for each of the plurality of
9 logical partitions to assure the at least one temporary resource may be recovered when the
10 specified resource-time has expired.
- 1 2. The apparatus of claim 1 wherein the capacity manager resides in a partition
2 manager that manages the plurality of logical partitions.
- 1 3. The apparatus of claim 1 wherein the capacity manager controls access to the
2 minimum resource specification for each of the plurality of logical partitions by not
3 allowing a sum of all the minimum resource specifications for all of the plurality of logical
4 partitions to exceed a total of base resources in the apparatus.

1 4. An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus;
5 a partition manager residing in the memory and executed by the at least one
6 processor, the partition manager managing the plurality of logical partitions, the partition
7 manager comprising:
8 a capacity manager that manages at least one temporary resource on
9 demand for a specified resource-time for at least one of the plurality of logical
10 partitions, the capacity manager comprising:
11 a minimum resource enforcement mechanism that controls access to
12 a minimum resource specification for each of the plurality of logical
13 partitions to assure the at least one temporary resource may be recovered
14 when the specified resource-time has expired.

1 5. The apparatus of claim 4 wherein the partition manager further comprises:
2 an enablement code mechanism that evaluates an enablement code to determine
3 whether the code is valid, wherein the enablement code includes the specified resource-
4 time.

1 6. The apparatus of claim 4 wherein the partition manager further comprises a
2 resource allocator that enables the at least one temporary resource.

1 7. The apparatus of claim 6 wherein the resource allocator recovers the at least one
2 temporary resource when the specified resource-time has expired.

1 8. A computer-implemented method for providing at least one temporary resource on
2 demand for a specified resource-time in a computer system that includes a plurality of
3 logical partitions, the method comprising the steps of:
4 enabling the at least one temporary resource for the specified resource-time; and
5 controlling access to a minimum resource specification for each of the plurality of
6 logical partitions to assure the at least one temporary resource may be recovered when the
7 specified resource-time expires.

1 9. The method of claim 8 wherein the step of controlling access to the minimum
2 resource specification for each of the plurality of logical partitions comprises the step of
3 not allowing a sum of all the minimum resource specifications for all of the plurality of
4 logical partitions to exceed a total of base resources in the computer system.

1 10. A computer-implemented method for providing at least one temporary resource on
2 demand for a specified resource-time in a computer system that includes a plurality of
3 logical partitions, the method comprising the steps of:
4 requesting an enablement code corresponding to the at least one temporary
5 resource for the specified resource-time;
6 receiving the enablement code;
7 enabling the at least one temporary resource for the specified resource-time;
8 using the at least one temporary resource for the specified resource-time; and
9 controlling access to a minimum resource specification for each of the plurality of
10 logical partitions to assure the at least one temporary resource may be recovered when the
11 specified resource-time expires.

1 11. The method of claim 10 further comprising the step of evaluating an enablement
2 code to determine whether the code is valid, wherein the enablement code includes the
3 specified resource-time.

1 12. The method of claim 10 further comprising the step of enabling the at least one
2 temporary resource.

1 13. The method of claim 10 further comprising the step of recovering the at least one
2 temporary resource when the specified resource-time expires.

- 1 14. A program product comprising:
2 a capacity manager that manages at least one temporary resource on demand for a
3 specified resource-time in a computer system that includes a plurality of logical partitions,
4 the capacity manager controlling access to a minimum resource specification for each of
5 the plurality of logical partitions to assure the at least one temporary resource may be
6 recovered when the specified resource-time has expired; and
7 computer readable signal bearing media bearing the capacity manager.
- 1 15. The program product of claim 14 wherein the signal bearing media comprises
2 recordable media.
- 1 16. The program product of claim 14 wherein the signal bearing media comprises
2 transmission media.
- 1 17. The program product of claim 14 wherein the capacity manager resides in a
2 partition manager that manages the plurality of logical partitions.
- 1 18. The program product of claim 14 wherein the capacity manager controls access to
2 the minimum resource specification for each of the plurality of logical partitions by not
3 allowing a sum of all the minimum resource specifications for all of the plurality of logical
4 partitions to exceed a total of base resources in the computer system.

- 1 19. A program product comprising:
2 (A) a partition manager comprising:
3 (A1) a capacity manager that manages at least one temporary resource on
4 demand for a specified resource-time in a computer system that includes a plurality
5 of logical partitions, the capacity manager comprising:
6 (A1a) a minimum resource enforcement mechanism that controls
7 access to a minimum resource specification for each of the plurality of
8 logical partitions to assure the at least one temporary resource may be
9 recovered when the specified resource-time has expired; and
10 (B) computer readable signal bearing media bearing the partition manager.
- 1 20. The program product of claim 19 wherein the signal bearing media comprises
2 recordable media.
- 1 21. The program product of claim 19 wherein the signal bearing media comprises
2 transmission media.
- 1 22. The program product of claim 19 wherein the partition manager further comprises:
2 an enablement code mechanism that evaluates an enablement code to determine
3 whether the code is valid, wherein the enablement code includes the specified resource-
4 time.
- 1 23. The program product of claim 19 wherein the partition manager further comprises
2 a resource allocator that enables the at least one temporary resource.

- 1 24. The program product of claim 23 wherein the resource allocator recovers the at
- 2 least one temporary resource when the specified resource-time has expired.

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